

EXHIBIT 601.4

be given a dose of 250 mcg (0.25 mg) daily of digoxin tablets, usually taken after the morning meal, if no loading dose is administered. Steady-state serum concentrations in this patient should be anticipated at approximately 11 days.

Infants and Children: In general, divided daily dosing is recommended for infants and young children (under age 10). In the newborn period, renal clearance of digoxin is diminished and suitable dosage adjustments must be observed. This is especially pronounced in the premature infant. Beyond the immediate newborn period, children generally require proportionally larger doses than adults on the basis of body weight or body surface area. Children over 10 years of age require adult dosages in proportion to their body weight. Some researchers have suggested that infants and young children tolerate slightly higher serum concentrations than do adults.

Daily maintenance doses for each age group are given in Table 5 and should provide therapeutic effects with minimum risk of toxicity in most patients with heart failure and normal sinus rhythm. There are no known interactions with digoxin.

Table 5. Daily Maintenance Doses in Children with Normal Renal Function

Age	Daily Maintenance Dose (mcg/kg)
2 to 5 years	10 to 15
5 to 10 years	7 to 10
Over 10 years	3 to 5

In children with renal disease, digoxin must be carefully titrated based upon clinical response.

It cannot be overemphasized that both the adult and pediatric dosage guidelines provided are based upon average patient response and substantial individual variation can be expected. Accordingly, ultimate dosage selection must be based upon clinical assessment of the patient.

Arrhythmias: Peak digoxin body stores larger than the 8 to 12 mcg/kg required for most patients with heart failure and normal sinus rhythm have been used in control of ventricular rate in patients with atrial fibrillation. Doses of digoxin used for the treatment of chronic atrial fibrillation should be titrated to the minimum dose that achieves the desired ventricular rate control without causing undesirable side effects. Data are not available to establish the appropriate resting or exercise target rates that should be achieved.

Dosage Adjustment When Changing Preparations: The difference in bioavailability between Digoxin Injection or Digoxin Solution in Capsules and Digoxin Pediatric Ellixir or digoxin tablets must be considered when changing patients from one dosage form to another.

Doses of 100 mcg (0.1 mg) and 200 mcg (0.2 mg) of Digoxin Solution in Capsules are approximately equivalent to 125-mcg (0.125-mg) and 250-mcg (0.25-mg) doses of digoxin tablets and Pediatric Ellixir, respectively. (see table in CLINICAL PHARMACOLOGY: HOW SUPPLIED).

DIGITEX[®] (digoxin tablets, USP) 125 mcg (0.125 mg) are yellow, round tablets, and imprinted with B 141 on the scored side of the tablet. They are available as follows:

NDC 62794-145-01 /

bottles of 100 tablets

NDC 62794-145-10

bottles of 1000 tablets

NDC 62794-145-56

bottles of 5000 tablets

DIGITEX[™] (digoxin tablets, USP) 250 mcg (0.25 mg) are white, round tablets, and imprinted with B 146 on the scored side of the tablet. They are available as follows.

NDC 62794-146-01

bottles of 100 tablets

NDC 62794-146-10

bottles of 1000 tablets

NDC 62794-146-56

bottles of 5000 tablets

Store at 15° to 25°C (59° to 77°F) in a dry place and protect from light.

Dispense in a tight, light-resistant container as defined in the USP

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centrations will be achieved in approximately five half-lives of the drug for the individual patient. Depending upon the patient's renal function, this will take between 1 and 3 weeks to reach steady-state serum concentrations. The patient should be re-evaluated at approximately 11 days.

8 to 12 mcg/kg should provide therapeutic effect with minimum risk of toxicity in most patients with heart failure and normal sinus rhythm. Because of altered digoxin distribution and elimination, grossly increased peak body stores for patients with renal insufficiency should be avoided (see Table 5).

The loading dose should be administered in several portions, with roughly half the total given as the first dose. Additional fractions of the planned total dose may be given at 6- to 8-hour intervals, with careful assessment of clinical response before each additional dose.

If the patient's clinical response necessitates a change from the calculated loading dose of digoxin, then calculation of the maintenance dose should be based upon the amount actually given.

A single initial dose of 500 to 750 mcg (0.5 to 0.75 mg) of digoxin in tablets usually produces a detectable effect in 0.5 to 2 hours that becomes maximal in 2 to 6 hours. Additional doses of 125 to 375 mcg (0.125 to 0.375 mg) may be given cautiously at 6- to 8-hour intervals with clinical evidence of an adequate effect.

The usual amount of digoxin tablets that a 70-kg patient would take is 8 to 12 mcg/kg peak body stores is 750 to 1,250 mcg (0.75 to 1.25 mg).

Digoxin injection is frequently used to achieve rapid digitalization, with conversion to digoxin tablets or Digoxin Solution in Capsules for maintenance therapy. If patients are switched from intravenous to oral digoxin formulations, allowances must be made for differences in bioavailability when calculating maintenance dosages (see table, CLINICAL PHARMACOLOGY: HOW SUPPLIED).

Clinical Pharmacology: The doses of digoxin used in controlled trials in patients with heart failure have ranged from 125 to 500 mcg (0.125 to 0.5 mg) once daily. In these studies, the digoxin dose has been generally titrated according to the patient's age, lean body weight, and renal function. Therapy is generally initiated at a dose of 250 mcg (0.25 mg) once daily in patients under age 70 with good renal function (CrCl ≥ 30 mL/min) or with impaired renal function, and at a dose of 62.5 mcg (0.0625 mg) in patients with marked renal impairment. Doses may be increased every 2 weeks according to clinical response.

In a subset of approximately 1,000 patients enrolled in the DISEASE (see below) study, the mean (±SD) serum digoxin concentrations at 1 month and 12 months were 1.01 ± 0.47 ng/mL and 0.97 ± 0.43 ng/mL, respectively. The maintenance dose should be based upon the percentage of the peak body stores lost each day through elimination. The following formula has had wide clinical use:

Maintenance Dose = Peak Body Stores (i.e., Loading Dose)

× % Daily Loss/100

Where: % Daily Loss = 14 + CrCl

(CrCl is creatinine clearance, corrected to 70 kg body weight or 1.73 m² body surface area.)

Table 5 provides average daily maintenance dose requirements of digoxin tablets for patients with heart failure based upon lean body weight and renal function.

Table 5. Usual Daily Maintenance Dose Requirements (mcg) of Digoxin for Estimated Peak Body Stores of 10 mcg/kg

Corrected CrCl, mL/min/1.73 m ²	Lean Body Weight, kg	Lean Body Weight, lb	70	80	90	100	Number of Tablets
10	62.5	135	154	175	198	220	22
15	62.5	135	154	175	198	220	19
20	62.5	135	154	175	198	220	15
30	62.5	135	154	175	198	220	13
40	62.5	135	154	175	198	220	12
50	62.5	135	154	175	198	220	11
60	62.5	135	154	175	198	220	10
70	62.5	135	154	175	198	220	9
80	62.5	135	154	175	198	220	8
90	62.5	135	154	175	198	220	7

*CrCl is creatinine clearance, corrected to 70 kg body weight or 1.73 m² body surface area. For adults, if only serum creatinine concentrations (Scr) are available, a CrCl (corrected to 70 kg body weight) may be estimated to men as (140-Age)/Scr. For women, this result should be multiplied by 0.85.

Note: This equation cannot be used for estimating creatinine clearance in infants or children.

If no loading dose administered

125 mcg = 0.0625 mg

Example: Based on the above table, a patient in heart failure with an estimated lean body weight of 70 kg and a CrCl of 60 mL/min, should

Patients with massive digitalis ingestion should receive large doses of activated charcoal to prevent absorption and bind digoxin in the gut during enteroenteric recirculation. Emesis or gastric lavage may be indicated especially if ingestion has occurred within 30 minutes of the patient's presentation at the hospital. Emesis should be induced in patients who are obtunded; if a patient presents more than 3 hours after ingestion or otherwise, if a patient presents, none may be useful to induce vomiting or attempt passage of a gastric tube, because such maneuvers may induce an acute vagal episode that can worsen digitalis-related arrhythmias.

Severe digitalis intoxication can cause a massive shift of potassium from inside to outside the cell, leading to life-threatening hyperkalemia. The administration of potassium supplements in the setting of massive intoxication may be hazardous and should be avoided. Hyperkalemia caused by massive digitalis toxicity is best treated with DIGIBIND[®] (Digoxin Immune Fab [Digin]). Initial treatment with glucose and insulin may also be required if hyperkalemia itself is acutely life-threatening.

DOSEAGE AND ADMINISTRATION:

Research: Recommended dosages of digoxin may require considerable modification because of individual sensitivity of the patient to the drug. The presence of associated conditions, or the use of concomitant medications in selecting a dose of digoxin, the following factors must be considered:

1. The body weight of the patient. Doses should be calculated based upon lean body weight (see table).

2. The patient's renal function, preferably evaluated on the basis of estimated creatinine clearance.

3. The patient's age. Adults and children require different doses of digoxin. For adults, advanced age may be indicative of diminished renal function even in patients with normal serum creatinine concentration (i.e., below 1.5 mg/dL).

4. Concomitant disease states, concurrent medications, or other factors likely to alter the pharmacokinetic or pharmacodynamic profile of digoxin (see PRECAUTIONS).

Serum Digoxin Concentrations: In general, the dose of digoxin used should be determined on clinical grounds. However, measurement of serum digoxin concentrations can be helpful to the clinician in determining the adequacy of digoxin therapy and in assigning certain probabilities to the likelihood of digoxin intoxication. About two-thirds of adults considered adequately digitalized (without evidence of toxicity) have serum digoxin concentrations ranging from 0.8 to 2 ng/mL. However, digoxin may produce clinical benefits even at serum concentrations below this range. About two-thirds of adult patients with clinical toxicity have serum digoxin concentrations greater than 2 ng/mL.

However, since one-third of patients with clinical toxicity have concentrations less than 2 ng/mL, values below 2 ng/mL do not rule out the possibility that a current sign of symptoms is related to digoxin therapy. Rarely, there are patients who are unable to tolerate digoxin at serum concentrations below 0.5 ng/mL. Consequently, the serum concentration of digoxin should always be interpreted in the overall clinical context, and an isolated measurement should not be used as the basis for increasing or decreasing the dose of the drug.

To allow adequate time for equilibration of digoxin between serum and tissue, sampling of serum concentrations should be done just before the next scheduled dose of the drug. If this is not possible, sampling should be done at least 6 to 8 hours after the last dose, regardless of the route of administration or the formulation used. On a one-daily dosing schedule, the concentration of digoxin will be approximately 25% lower when sampled at 24 versus 8 hours, depending upon the patient's renal function. On a twice-daily dosing schedule, there will be only minor differences in serum digoxin concentrations, whatever sampling is done at 8 or 12 hours after a dose.

If discrepant values between the reported serum concentration and the observed clinical response, the clinician should consider the following possibilities:

1. Analytical problems in the assay procedure

2. Inappropriate serum sampling time

3. Administration of a digitalis glycoside other than digoxin

4. Conditions described in WARNINGS and PRECAUTIONS causing an alteration in the sensitivity of the patient to digoxin.

5. Serum digoxin concentration may decrease acutely during periods of exercise without any associated change in clinical efficacy due to increased binding of digoxin to skeletal muscle.

Heart Failure: Adults: Digitalization may be accomplished by either body surface area. For adults, if only serum creatinine concentrations (Scr) are available, a CrCl (corrected to 70 kg body weight) may be estimated to men as (140-Age)/Scr. For women, this result should be multiplied by 0.85.

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125 mcg = 0.0625 mg

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Table 4. Adverse Experiences in Two Parallel, Double-Blind, Placebo-Controlled Withdrawal Trials (Number of Patients Reporting)

Adverse Experience	Digoxin Patients (n=123)	Placebo Patients (n=125)
Cardiac		
Arrhythmia	1	4
Ventricular extrasystole	1	1
Tachycardia	2	1
Heart arrest	1	1
Gastrointestinal		
Nausea	1	4
Vomiting	4	2
Diarrhea	4	1
Abdominal pain	0	6
CNS		
Headache	4	4
Dizziness	5	1
Mental disturbances	5	1
Other		
Death	2	3

Infants and Children: The side effects of digoxin in infants and children differ from those seen in adults in several respects. Although digoxin may produce anorexia, nausea, vomiting, diarrhea, and CNS disturbances in young patients, these are rarely the initial symptoms of overdosage. Rather, the earliest and most frequent manifestation of excessive dosing with digoxin in infants and children is the appearance of cardiac arrhythmias, including sinus bradycardia. In children, the use of digoxin may produce arrhythmias. The most common are conduction disturbances or supraventricular tachycardias, such as atrial tachycardia (with or without block) and junctional (nodal) tachycardia. Ventricular arrhythmias are less common. Sinus bradycardia may be a sign of impending digoxin intoxication, especially in infants, even in the absence of first-degree heart block. Any arrhythmia or alteration in cardiac conduction that develops in a child taking digoxin should be assumed to be caused by digoxin, until further evaluation proves otherwise.

OVERDOSAGE:

Treatment of Adverse Reactions Produced by Overdosage: Digoxin should be temporarily discontinued until the adverse reaction resolves. Every effort should also be made to correct factors that may contribute to the adverse reaction (such as electrolyte disturbances, concurrent medications). Once the adverse reaction has resolved, therapy with digoxin may be reinitiated, following a careful reassessment of dose.

Withdrawal of digoxin may be all that is required to treat the adverse reaction. However, when the primary manifestation of digoxin overdosage is a cardiac arrhythmia, additional therapy may be needed.

If the rhythm disturbance is a symptomatic bradyarrhythmia or heart block, consideration should be given to the reversal of toxicity with DIGIBIND[®] (Digoxin Immune Fab [Digin]) (see below). The use of atropine or the insertion of a temporary cardiac pacemaker. However, asymptomatic bradycardia or heart block rarely leads to digoxin toxicity requiring only temporary withdrawal of the drug and cautious monitoring of the patient.

If the rhythm disturbance is a ventricular arrhythmia, consideration should be given to the correction of electrolyte disorders, particularly if hypokalemia (see below) or hypomagnesemia is present. DIGIBIND[®] (Digoxin Immune Fab [Digin]) is a specific antidote for digoxin and may be used to reverse potentially life-threatening ventricular arrhythmias due to digoxin overdosage.

Administration of Potassium: Every effort should be made to maintain the serum potassium concentration between 4 and 5.5 mmol/L. Potassium is usually administered orally, but when correction of the arrhythmia is urgent and the serum potassium concentration is low, potassium may be administered parenterally by the intravenous route.

The electrocardiogram should be monitored for any evidence of potassium toxicity (e.g., peaking of T waves) and to observe the effect on the arrhythmia. Potassium salts may be dangerous in patients who manifest bradycardia or heart block due to digoxin toxicity primarily because of the risk of inducing asystole in the setting of massive digitalis overdosage (see Massive Digitalis Overdosage subsection).

Massive Digitalis Overdosage: Manifestations of life-threatening toxicity include ventricular tachycardia or ventricular fibrillation, or progressive bradyarrhythmias, or heart block. The administration of more than 10 mg of digoxin in a previously healthy adult or more than 4 mg in a previously healthy child, or a steady-state serum concentration greater than 10 ng/mL, often results in cardiac arrest.

DIGIBIND[®] (Digoxin Immune Fab [Digin]) should be used to reverse the toxic effects of digoxin overdosage. It is a specific antidote for digoxin and may be used to reverse potentially life-threatening ventricular arrhythmias due to digoxin overdosage.

Warnings: Digoxin may cause anorexia, nausea, vomiting and diarrhea. Rarely, the use of digoxin has been associated with abdominal pain, intestinal ischemia, and hemorrhagic necrosis of the intestines.

Precautions: Digoxin may cause anorexia, nausea, vomiting and diarrhea. Rarely, the use of digoxin has been associated with abdominal pain, intestinal ischemia, and hemorrhagic necrosis of the intestines.

Contraindications: Digoxin may cause anorexia, nausea, vomiting and diarrhea. Rarely, the use of digoxin has been associated with abdominal pain, intestinal ischemia, and hemorrhagic necrosis of the intestines.

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reproduction studies have not been conducted with digoxin. It is also not known whether digoxin can cause harm when administered to a pregnant woman or can affect reproductive capacity. Digoxin should be given to a pregnant woman only if clearly indicated.

Nursing Mothers: Studies have shown that digoxin concentrations in the mother's serum and milk are similar. However, the estimated exposure of a nursing infant to digoxin via breast feeding will be far below the usual infant maintenance dose. Therefore, this amount should have no pharmacologic effect upon the infant. Nevertheless, caution should be exercised when digoxin is administered to a nursing woman.

Pediatric Use: Newborn infants display considerable variability in their tolerance to digoxin. Tremulous and irritable infants are particularly sensitive to the effects of digoxin, and the dosage of the drug must not only be reduced but must be individualized according to their degree of toxicity. Digoxin glycosides can cause poisoning in children due to accidental ingestion.

Geriatric Use: The majority of clinical experience gained with digoxin has been in the elderly population. This experience has not identified differences in response or adverse effects between the elderly and younger patients. However, this drug is known to be substantially excreted by the kidney, and the risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly